

**IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. *(Currently Amended)* A deflection yoke comprising:

a pair of saddle-type horizontal deflecting coils located substantially symmetrically with respect to a central axis and having ~~the shape of~~ a substantially truncated pyramid shape;

a magnetic core coaxial with the central axis, located on an outer peripheral side of the horizontal deflecting coils, and having ~~the shape of~~ a substantially truncated cone shape; and

a pair of vertical deflecting coils, each having windings that are toroidally wound around the magnetic core,

wherein if the for a position of a horizontal axis perpendicular to the central axis and ~~the~~ a position of a vertical axis perpendicular to the central axis and the horizontal axis are given by 0° and 90°, respectively, ~~in the~~ along a circumferential direction of the circumference of a circle around the central axis, the winding of one of the vertical deflecting coils ~~having~~ has a starting point on the horizontal-axis side within ~~the~~ a range of about 5° - 30° and ~~being~~ is distributed continuously or intermittently from the starting point to 90° so as to have a plurality of peak parts of a winding ratio in a winding distribution and is wound substantially symmetrically with respect to the vertical axis, and

wherein the respective windings of the one vertical deflecting coil and the other vertical deflecting coil ~~being~~ are wound substantially symmetrically with respect to a the horizontal axis.

2. *(Currently Amended)* A deflection yoke according to claim 1, wherein ~~said one of the vertical deflecting coils has a~~ said plurality of peak parts ~~in which the~~

~~winding distribution is close as the coil is wound and which~~ are located near the ranges of about 20° - 40° and about 60° - 80° at the least.

3. (*Original*) A deflection yoke according to claim 1, wherein each of the horizontal deflecting coils has a large-diameter end and a small-diameter end, the small-diameter end having a bendless shape without any bends in a direction perpendicular to the central axis.

4. (*Original*) A deflection yoke according to claim 3, which further comprises a coma coil located coaxially with the central axis of the horizontal deflecting coils and at a distance from the small-diameter end of the horizontal deflecting coil in the direction of the central axis, and wherein L1, L2 and L3 are set to have relations:

$$L1 > L2 > L3,$$

$$L3 = 0.6 \times L2 - 0.8 \times L2,$$

where L1 is an effective length of the horizontal deflecting coil in the direction of the central axis, L2 is the length of the core in the direction of the central axis, and L3 is the distance between a small-diameter end of the core and the coma coil in the direction of the central axis.

5. (*Currently Amended*) A cathode ray tube apparatus comprising:

a vacuum envelope including a panel having a phosphor screen formed on an inner surface thereof, a funnel fixed to the panel, a cylindrical neck fixed to a small-diameter end of the funnel, and a yoke mounting portion having a substantially ~~in the shape of a truncated pyramid~~ shape and ranging from the neck to an outer periphery of the funnel;

an electron gun which is located in the neck of the vacuum envelope and emits electron beams toward the phosphor screen; and

a deflection yoke which is mounted ~~on the~~ outside of the yoke mounting portion and deflects the electron beams in horizontal and vertical directions,

wherein the deflection yoke ~~including~~ includes a pair of saddle-type horizontal deflecting coils located substantially symmetrically with respect to a central axis and having ~~the a substantially shape of a truncated pyramid shape,~~

wherein the deflection yoke includes a magnetic core coaxial with the central axis, located on an outer peripheral side of the horizontal deflecting coils, and ~~having~~ has a the substantially shape of a truncated cone shape,

wherein the deflection yoke includes and a pair of vertical deflecting coils each having windings that are toroidally wound around the magnetic core,

wherein if ~~the~~ for a position of a horizontal axis perpendicular to the central axis and the a position of a vertical axis perpendicular to the central axis and the horizontal axis are given by 0° and 90°, respectively, in the along a circumferential direction of the circumference of a circle around the central axis, the winding of one of the vertical deflecting coils ~~having~~ has a starting point on the horizontal-axis side within the a range of about 5° - 30° and being is distributed continuously or intermittently from the starting point to 90° so as to have a plurality of peak parts of a winding ratio in a winding distribution and is wound substantially symmetrically with respect to the vertical axis, and

wherein the respective windings of the one vertical deflecting coil and the other vertical deflecting coil ~~being~~ are wound substantially symmetrically with respect to a the horizontal axis.

6. (*Currently Amended*) A cathode ray tube apparatus according to claim 5, wherein ~~said one of the vertical deflecting coils has a said plurality of peak parts in which the winding distribution is close as the coil is wound and which are located near~~ [[the]] ranges of about 20° - 40° and about 60° - 80° at the least.

7. (*Original*) A cathode ray tube apparatus according to claim 5, wherein each of the horizontal deflecting coils has a large-diameter end and a small-diameter end, the small-diameter end having a bendless shape without any bends in a direction perpendicular to the central axis.

8. (*Original*) A cathode ray tube apparatus according to claim 7, which further comprises a coma coil located coaxially with the central axis of the horizontal deflecting coils

and at a distance from the small-diameter end of the horizontal deflecting coil in the direction of the central axis, and wherein L1, L2 and L3 are set to have relations:

$$L1 > L2 > L3,$$

$$L3 = 0.6 \times L2 - 0.8 \times L2,$$

where L1 is the effective length of the horizontal deflecting coil in the direction of the central axis, L2 is the length of the core in the direction of the central axis, and L3 is the distance between a small-diameter end of the core and the coma coil in the direction of the central axis.